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FILE 'USPAT' ENTERED AT 13:21:47 ON 02 SEP 1999

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\* U. S. P A T E N T T E X T F I L E \*  
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\* THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT \*  
\* THROUGH AUGUST 31,1999 \*  
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=> e mccarty, williams?/in

E#	FILE	FREQUENCY	TERM
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E1	USPAT	3	MCCARTY, WILLIAM R JR/IN
E2	USPAT	2	MCCARTY, WILLIAM V/IN
E3	USPAT	0 -->	MCCARTY, WILLIAMS?/IN
E4	USPAT	1	MCCARVER, BYRON M/IN
E5	USPAT	2	MCCARVER, STACEY G/IN
E6	USPAT	1	MCCARVILLE, DAVID J/IN
E7	USPAT	10	MCCARVILLE, DOUGLAS A/IN
E8	USPAT	1	MCCARVILLE, STEVEN J/IN
E9	USPAT	1	MCCARY, L V JR/IN
E10	USPAT	8	MCCARY, RICHARD O/IN
E11	USPAT	1	MCCARY, RICHARD OSCAR/IN
E12	USPAT	1	MCCASH, BENJAMIN L/IN

=> s e1

L1 3 "MCCARTY, WILLIAM R JR"/IN

=> d 1-3

1. 3,672,627, Jun. 27, 1972, DIAPHRAGM ASSEMBLY FOR PRESSURE OPERATED PILOT CONTROLLED SHUT-OFF VALVE; William R. McCarty, Jr., et al., 251/30.03 [IMAGE AVAILABLE]

2. 3,593,957, Jul. 20, 1971, DIAPHRAGM ASSEMBLY FOR PRESSURE OPERATED PILOT CONTROLLED SHUTOFF VALVE; Paul A. Dolter, et al., 251/30.03, 38 [IMAGE AVAILABLE]

3. 3,593,956, Jul. 20, 1971, SHUTOFF VALVE AND ARMATURE GUIDE THEREFOR; William R. McCarty, Jr., 251/30.03; 92/98D; 251/45, 61 [IMAGE AVAILABLE]

=> s e2

L2 2 "MCCARTY, WILLIAM V"/IN

=> d 1-2

1. 4,456,425, Jun. 26, 1984, Modular inlet gearbox for a gas turbine engine; William V. McCarty, et al., 415/122.1; 74/416; 403/356; 416/170R [IMAGE AVAILABLE]

2. 3,631,735, Jan. 4, 1972, GAS TURBINE ENGINE GEARBOXES; William V. McCarty, 74/405, 606R; 403/359.5 [IMAGE AVAILABLE]

=> s portable vibration monitor###

89751 PORTABLE  
275 PORTABLES  
89800 PORTABLE  
(PORTABLE OR PORTABLES)  
109773 VIBRATION  
59192 VIBRATIONS  
138145 VIBRATION  
(VIBRATION OR VIBRATIONS)  
298805 MONITOR###  
L3 2 PORTABLE VIBRATION MONITOR###  
(PORTABLE (W) VIBRATION (W) MONITOR###)

=> d 1-2

1. 5,847,658, Dec. 8, 1998, Vibration monitor and monitoring method; Atsushi Irie, et al., 340/683; 73/579, 602, 659, 660; 702/56, 76 [IMAGE AVAILABLE]

2. 4,520,674, Jun. 4, 1985, Vibration monitoring device; Ronald G. Canada, et al., 73/660; 702/56, 197 [IMAGE AVAILABLE]

=> d ti, ab 1-2

US PAT NO: 5,847,658 [IMAGE AVAILABLE] L3: 1 of 2  
TITLE: Vibration monitor and monitoring method

ABSTRACT:

The object of this invention is to produce a monitor which can correctly distinguish normal from abnormal vibration using automatically selected monitoring features and algorithms. The monitor can be used with a variety of devices with different vibration characteristics. The monitor according to this invention has a sensor that detects the vibration of an object. The monitor is operated in learning mode when the object is vibrating normally. The waveform of the vibration detected by this sensor is sampled over an appropriate period and analyzed. The data for each sampling feature are subjected to statistical processing, and the data which evince slight change are extracted as monitoring features. A monitoring algorithm is automatically made for these monitoring features. The algorithm selected in learning mode are used to evaluate the vibration of an object when the monitor is in operating mode. The operator does not need to set up the algorithm, and can monitor the object with a more reliable algorithm than the conventional one selected by fixed monitoring features.

US PAT NO: 4,520,674 [IMAGE AVAILABLE] L3: 2 of 2  
TITLE: Vibration monitoring device

ABSTRACT:

A **portable vibration monitoring** device (10) for use in connection with a base computer (11) which stores data regarding the nature and parameters of vibration measurements to be made on preselected machines for predictive maintenance purposes. The device includes a power module (36) which energizes the various components. A vibration sensor (14) produces an analog signal which is representative of selected vibration parameters. The signal generated by the vibration monitor is conditioned by a signal conditioning module (16) which includes anti-aliasing filters which enhance the accuracy of the data collected. A multiple function module (18) includes various selectively energized

modules which enhance the speed and reliability of the data collected.